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In the Claims:

Please amend claims 1, 9, 16 and 17 as follows.

A mixture to be employed in conjunction 1. (Currently Amended) with water for preparing a slurry that hydrates to form a high strength flooring compound, comprising:

about 50% to about 98% by weight calcium sulfate hemihydrate, at least 25% of said calcium sulfate hemihydrate being the beta-calcined form;

about 0.2% to about 10% by weight of a polycarboxylate dispersant comprising oxyalkylene-alkyl ether and unsaturated dicarboxylic acid; and

0.05-50% by weight enhancing component.

- 2. (Original) The mixture of claim 1 wherein said calcium sulfate hemihydrate comprises at least 90% by weight of the beta-calcined form.
- The mixture of claim 2 wherein said calcium sulfate 3. (Original) hemihydrate consists essentially of the beta-calcined form.

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- 4. (Original) The mixture of claim 2 wherein the concentration of said hemihydrate is from about 80% to about 95% by weight.
- 5. (Original) The mixture of claim 1 wherein said enhancing component comprises lime.
- 6. (Original) The mixture of claim 5 wherein the concentration of said lime in said mixture is from about 0.05% to about 10% by weight.
- 7. (Original) The mixture of claim 1 wherein said mixture comprises from about 0.2% to about 1% by weight polycarboxylate on a dry, aggregate-free basis.
 - 8. (Original) The mixture of claim 1 further comprising polysaccharide.
- 9. (Currently Amended) A subfloor comprising a hydrated product of a pumpable slurry comprising:

about 50% to about 98% calcium sulfate hemihydrate, said hemihydrate comprising at least 25% of the beta-calcined form;

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about 0.2% to about 10% of a polycarboxylate dispersant comprising oxyalkylene-alkyl ether and unsaturated dicarboxylic acid;

about 0.05% to about 50% enhancing component; and

from about 12cc to about 40 cc water per 100 grams of a combined mixture of the hemihydrate, the polycarboxylate and the enhancing component on a dry solids basis, said hydrated mixture having a compressive strength in excess of 2500 psi (175 Kg/cm2).

- 10. The subfloor of claim 9 wherein said hemihydrate consists (Original) essentially of beta-calcined hemihydrate.
- The subfloor of claim 9 wherein the concentration of said 11. (Original) polycarboxylate dispersant is from about 0.2% to about 1% by weight on a dry, aggregatefree basis.
- The subfloor of claim 9 wherein said enhancing 12. (Original) component comprises lime.
- The subfloor of claim 11 wherein said water is present in 13. (Original) an amount less than 35 cc water per 100 grams mixture on a dry, aggregate-free basis.

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- 14. (Original) The subfloor of claim 13 wherein said water is present in an amount less than 25 cc per 100 grams of said mixture on a dry, aggregate-free basis.
- 15. (Original) The subfloor of claim 8 wherein said slurry further comprises polysaccharide.
- 16. (Currently Amended) A subfloor comprising a hydrated product of a pumpable slurry comprising:

about 50% to about 98% calcium sulfate hemihydrate;

about 0.2% to about 10% of a polycarboxylate dispersant comprising oxyether-alkyl ether and dicarboxylic acids;

about 0.05% to about 50% enhancing component; and

from about 15cc to about 25 cc water per 100 grams of a combined mixture of the hemihydrate, the polycarboxylate and the enhancing component on a dry solids basis, said hydrated mixture having a compressive strength in excess of 2500 psi (175 Kg/cm2).

17. (Currently Amended) A method of preparing a subfloor comprising:

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obtaining ingredients comprising from about 50% to about 98% calcium sulfate hemihydrate comprising at least 25% of the beta-calcined form, from about 0.2% to about 10% of a polycarboxylate dispersant comprising oxyalkylene-alkyl ether and unsaturated dicarboxylic acid and from about 0.05% to about 50% of an enhancing component, all on a dry solids basis;

separating the ingredients into wet ingredients and dry ingredients; dry blending the dry ingredients;

measuring from about 12 cc to about 40 cc of water per 100 grams of the ingredients on a dry solids basis;

forming a mixture of the wet ingredients and the water;

forming a slurry from the dry ingredients and the mixture;

pouring the slurry in an area prepared for the subfloor; and,

allowing the slurry to set, forming the subfloor having a compressive strength in excess of 2500 psi.

18. (Original) The method of claim 17 wherein the calcined gypsum comprises beta-calcined gypsum.

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- 19. (Original) The method of claim 17 wherein said calcium sulfate hemihydrate comprises at least 80% by weight of the dry mixture on an aggregate-free basis.
- 20. (Original) The method of claim 17 further comprising the step of mixing an aggregate into the dry ingredients prior to forming the slurry.
- 21. (Original) The method of claim 17 further comprising packaging the dry mixture after said dry blending step.
- 22. (Original) A subfloor comprising the hydrated product of the process of claim 16.